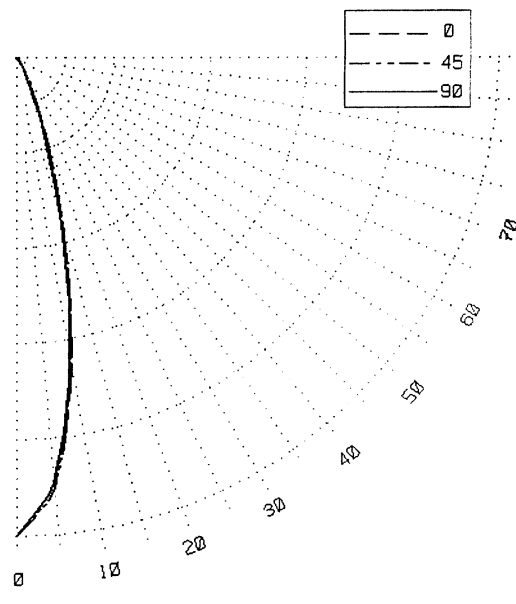


BALLABS CERTIFIED TEST REPORT NO.: 20352.0 DATE 04/27/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT  
ACRYLIC NARROW TIR OPTIC & 6"CAST WHITE FLUSH TRIM w/SOLITE  
LENS ADVANCE # XI025C070V054DSM1 @ 560mA  
CATALOG NBR: 6DS-L20/835-DIM-UNV-L-N-OF-WH  
LAMP TYPE : BXRE-35E2000

## CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	8177.	8177.	8177.	8177.	8177.	
5	7298.	7327.	7406.	7327.	7293.	700.5
10	5362.	5420.	5337.	5240.	5185.	
15	3140.	3076.	3079.	2844.	2928.	852.8
20	1605.	1614.	1490.	1389.	1335.	
25	692.	691.	698.	617.	584.	306.0
30	299.	311.	316.	278.	255.	
35	164.	156.	167.	143.	128.	96.2
40	89.	90.	103.	87.	82.	
45	60.	63.	69.	60.	57.	48.6
50	42.	45.	49.	44.	41.	
55	34.	35.	36.	33.	33.	31.0
60	25.	25.	25.	25.	25.	
65	20.	19.	20.	19.	18.	18.8
70	13.	12.	12.	12.	11.	
75	7.	8.	8.	8.	7.	8.5
80	4.	4.	4.	3.	4.	
85	1.	0.	0.	0.	0.	.1
90	0.	0.	0.	0.	0.	



*[Handwritten signature]*

**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1859.	NA.	90.1	90-120	0.	NA.	.0
0- 40	1955.	NA.	94.8	90-130	0.	NA.	.0
0- 60	2035.	NA.	98.7	90-150	0.	NA.	.0
0- 90	2063.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180				2063.	NA.	100.0	

IES SPACING CRITERIA: END= .4 DIAGONAL = .4 CROSS= .4

THIS BALLABS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THIS CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

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LUMINANCES-CD/SQ-M			
HORIZONTAL ANGLE			
VERT	0	45	90
ANGLE			
45	3631.	4195.	3443.
55	2547.	2701.	2470.
65	1990.	1990.	1781.
75	1197.	1368.	1197.
85	508.	0.	0.

\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

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#### ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80				.70				.50				.30				.10		.00
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00	
RCR																			
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	
1	1.15	1.13	1.11	1.09	1.13	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.99	.97	
2	1.11	1.07	1.04	1.01	1.09	1.05	1.02	1.00	1.02	1.00	.98	.99	.97	.96	.97	.95	.94	.92	
3	1.07	1.02	.99	.96	1.05	1.01	.98	.95	.99	.96	.93	.96	.94	.92	.94	.92	.91	.89	
4	1.03	.98	.94	.90	1.02	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86	
5	1.00	.94	.89	.86	.99	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.82	
6	.97	.91	.86	.83	.96	.90	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80	
7	.94	.87	.83	.80	.93	.87	.83	.80	.86	.82	.80	.85	.81	.79	.84	.81	.79	.78	
8	.91	.84	.80	.77	.90	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75	
9	.88	.81	.77	.74	.88	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.73	.72	
10	.85	.78	.74	.71	.85	.78	.74	.71	.77	.74	.71	.77	.73	.71	.76	.73	.71	.70	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 119.89V .1894A 22.4630W

LUMINOUS EFFICACY (LUMENS / WATTS) = 91.8

TESTED IN ACCORDANCE WITH CURRENT IES STANDARDS  
UTILIZING ABSOLUTE PHOTOMETRY PER LM-79-08

